

=====

Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=1; day=8; hr=11; min=11; sec=19; ms=352;]

=====

Reviewer Comments:

<110> Jackson, Aimee L.
Bartz, Steven R.
Burchard, Julja,
Linsley, Peter S.
Ge, Wei
Cavet, Guy L.

<120> METHOD OF DESIGNING siRANS FOR GENE
SILENCING

Please change "siRANS" in the above <120> response to "siRNAS"

<210>

335 <211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

Please move the above "335" up to the <210> line.

Application No: 10577696 Version No: 1.0

Input Set:**Output Set:**

Started: 2007-12-14 12:08:13.705
Finished: 2007-12-14 12:08:19.590
Elapsed: 0 hr(s) 0 min(s) 5 sec(s) 885 ms
Total Warnings: 990
Total Errors: 2
No. of SeqIDs Defined: 990
Actual SeqID Count: 990

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2007-12-14 12:08:13.705
Finished: 2007-12-14 12:08:19.590
Elapsed: 0 hr(s) 0 min(s) 5 sec(s) 885 ms
Total Warnings: 990
Total Errors: 2
No. of SeqIDs Defined: 990
Actual SeqID Count: 990

Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
E 201	Mandatory field data missing in <210> Expected SEQID 335
E 212	Invalid Sequence ID Number; Expected 335 as next SeqID but skipped

SEQUENCE LISTING

<110> Jackson, Aimee L.
 Bartz, Steven R.
 Burchard, Julja,
 Linsley, Peter S.
 Ge, Wei
 Cavet, Guy L.

<120> METHOD OF DESIGNING siRANS FOR GENE
 SILENCING

<130> 9301-244-999

<140> 10577696

<141> 2007-12-14

<150> PCT/US2004/035636

<151> 2004-10-27

<150> 60/515,180

<151> 2003-10-27

<150> 60/572,314

<151> 2004-05-17

<160> 990

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> an example of siRNA

<400> 1

gcgttaatgt gataatata

19

<210> 2

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 2

tgttgatccgg ctgatggac

19

<210> 3

<211> 19

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 3
 actcttactg ctctccagt 19

 <210> 4
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 4
 cttaacacgg atgctggtg 19

 <210> 5
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 5
 ggagagcttt ctaggacct 19

 <210> 6
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 6
 agtcaccccg cagagccgc 19

 <210> 7
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 7
 atcgtagtgc ttgtactta 19

<210> 8
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 8
 ggagacgtac cgctgcatc 19

 <210> 9
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 9
 gcagtgattg ctcagcagc 19

 <210> 10
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 10
 gagtttaccg accaccaag 19

 <210> 11
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 11
 tgcggatgcc attcagtgg 19

 <210> 12
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 12	
cacggttggc agagtctat	19
<210> 13	
<211> 19	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> DNA sequence corresponding to siRNA sense strand in construction of siRNA library	
<400> 13	
gcaagttgag ctctaccgc	19
<210> 14	
<211> 19	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> DNA sequence corresponding to siRNA sense strand in construction of siRNA library	
<400> 14	
tggccagcgc ttactggaa	19
<210> 15	
<211> 19	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> DNA sequence corresponding to siRNA sense strand in construction of siRNA library	
<400> 15	
gttcaaaagc tggatgac	19
<210> 16	
<211> 19	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> DNA sequence corresponding to siRNA sense strand in construction of siRNA library	
<400> 16	
ggcctctata cccctcaaa	19
<210> 17	
<211> 19	
<212> DNA	
<213> Artificial Sequence	

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 17
agaaccgaat cgtctagag 19

<210> 18
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 18
cacgatgcat agccatcct 19

<210> 19
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 19
cagagacaga atctacact 19

<210> 20
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 20
caacagaagg ttgtcttgt 19

<210> 21
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 21
ttgtgtgtgg gaccgtaat 19

<210> 22
<211> 19

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 22
 gctcacggtc attaccgag 19

 <210> 23
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 23
 cctgaggaac attactcgg 19

 <210> 24
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 24
 tgctgacctc tgttacctc 19

 <210> 25
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 25
 cgacacggcc tgtgtagct 19

 <210> 26
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 26
 cggcagccag agcatgtac 19

<210> 27
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 27
 ccagaacttg cagcaactg 19

 <210> 28
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 28
 cctcacggtc atccgcggc 19

 <210> 29
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 29
 ctacgccttg gtcattcttc 19

 <210> 30
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 30
 tctcaaggat attgggctt 19

 <210> 31
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 31
 ggatattggg ctttacaac 19

<210> 32
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 32
 cattactcgg ggggccatc 19

<210> 33
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 33
 aatgctgacc tctgttacc 19

<210> 34
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 34
 ctggatcgta agaaggcag 19

<210> 35
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 35
 tggaaggtga aaggtcacc 19

<210> 36
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 36
 ggacaactgc agctactct 19

<210> 37
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 37
 tacggactca ccttgcttg 19

<210> 38
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 38
 gtatatacat tcagctgac 19

<210> 39
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 39
 ggaacacccc ccgcttatac 19

<210> 40
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 40
 gtggccgatc cttatgatc 19

<210> 41
 <211> 19

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 41
 atgtgattgg tctggttga 19

 <210> 42
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 42
 gtcacacagct ttgtgccac 19

 <210> 43
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 43
 taattcacag ggacctaaa 19

 <210> 44
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 44
 tgccactttt gctcagtac 19

 <210> 45
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 45
 cctacagaga actgcggtt 19

<210> 46
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 46
 ttctccgagg tctaaagta 19

 <210> 47
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 47
 ccagtggccg atccttatg 19

 <210> 48
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 48
 ggccttttca cgggaactc 19

 <210> 49
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 49
 ctgaagaagc tactgcttg 19

 <210> 50
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 50	
gacatgcgaa tgacactag	19
<210> 51	
<211> 19	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> DNA sequence corresponding to siRNA sense strand in construction of siRNA library	
<400> 51	
agaggaactc tctgcaagc	19
<210> 52	
<211> 19	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> DNA sequence corresponding to siRNA sense strand in construction of siRNA library	
<400> 52	
aaactgggag gctacttac	19
<210> 53	
<211> 19	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> DNA sequence corresponding to siRNA sense strand in construction of siRNA library	
<400> 53	
actgacaaca aagtgcagc	19
<210> 54	
<211> 19	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> DNA sequence corresponding to siRNA sense strand in construction of siRNA library	
<400> 54	
ctcacattgt ccaccagga	19
<210> 55	
<211> 19	
<212> DNA	
<213> Artificial Sequence	

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 55
gacctgtgcc ttttagaga 19

<210> 56
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 56
gacttcattg acagtggcc 19

<210> 57
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 57
aaaggacaac tgcagctac 19

<210> 58
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 58
tggaggggaa tgctcagaa 19

<210> 59
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 59
taaagatggc actttcccg 19

<210> 60
<211> 19

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 60
 aaggcagcta aaggaagtg 19

 <210> 61
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 61
 tattgggccca gcagattac 19

 <210> 62
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 62
 ttatgacgct aggccacaa 19

 <210> 63
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 63
 ggagaaagat ccctttgag 19

 <210> 64
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 64
 acaaaaacgg agatccgtc 19

<210> 65
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 65
 ataagcagca agaaacggc 19

 <210> 66
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 66
 gaatttcggg ctactttgg 19

 <210> 67
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 67
 cgcaccttcc atgtggaga 19

 <210> 68
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

 <400> 68
 agacgttttt gtgctgtgg 19

 <210> 69
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> DNA sequence corresponding to siRNA sense strand
 in construction of siRNA library

<400> 69
gctggagaac ctcattgctg 19

<210> 70
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA sequence corresponding to siRNA sense strand
in construction of siRNA library

<400> 70
ctctaccact gaagagttg 19

<210> 71
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> DNA sequence corresponding to siRNA sense strand